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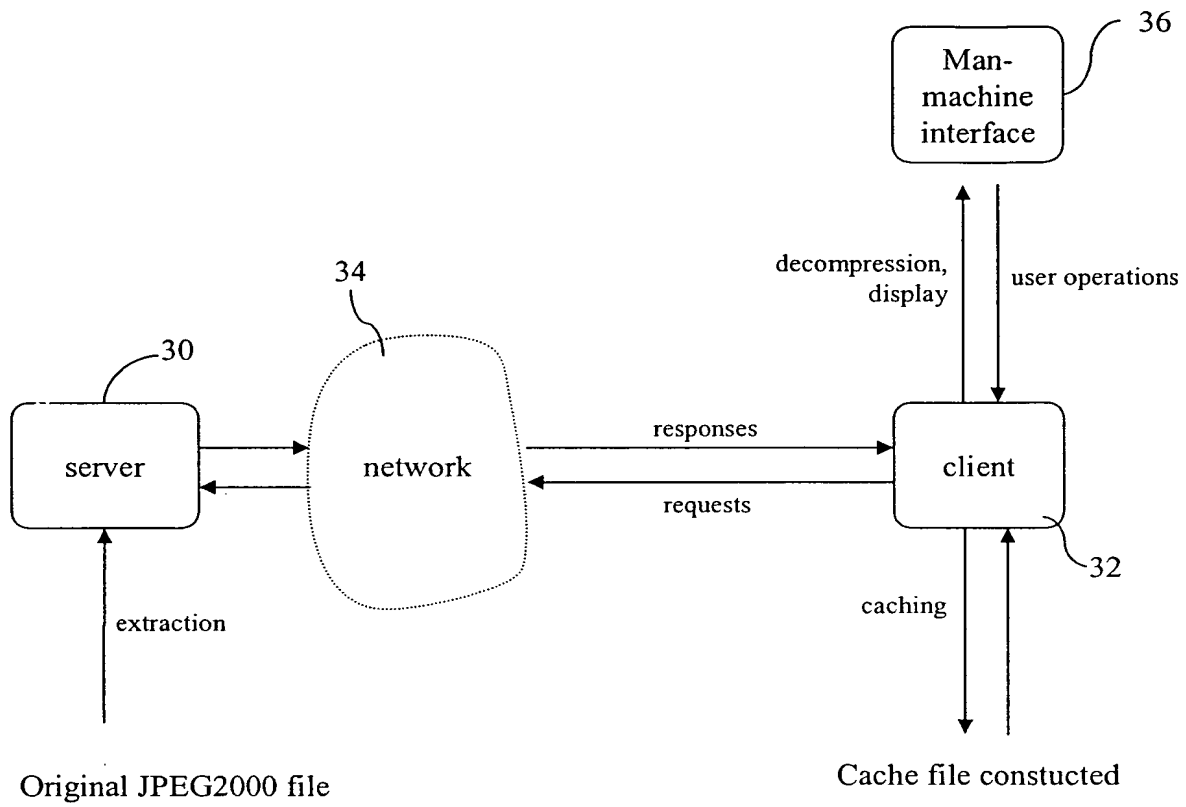


Figure 1

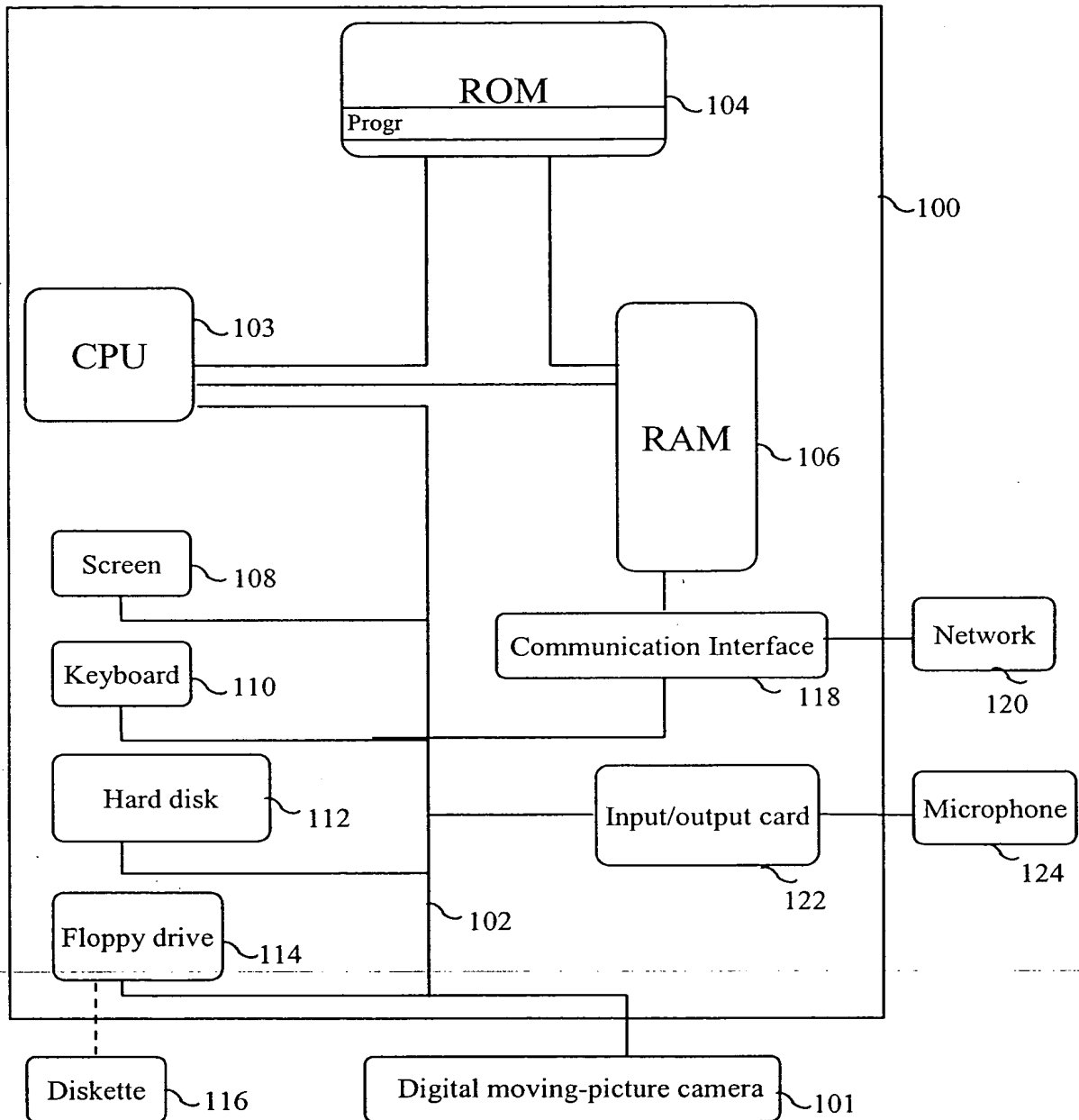


Figure 2

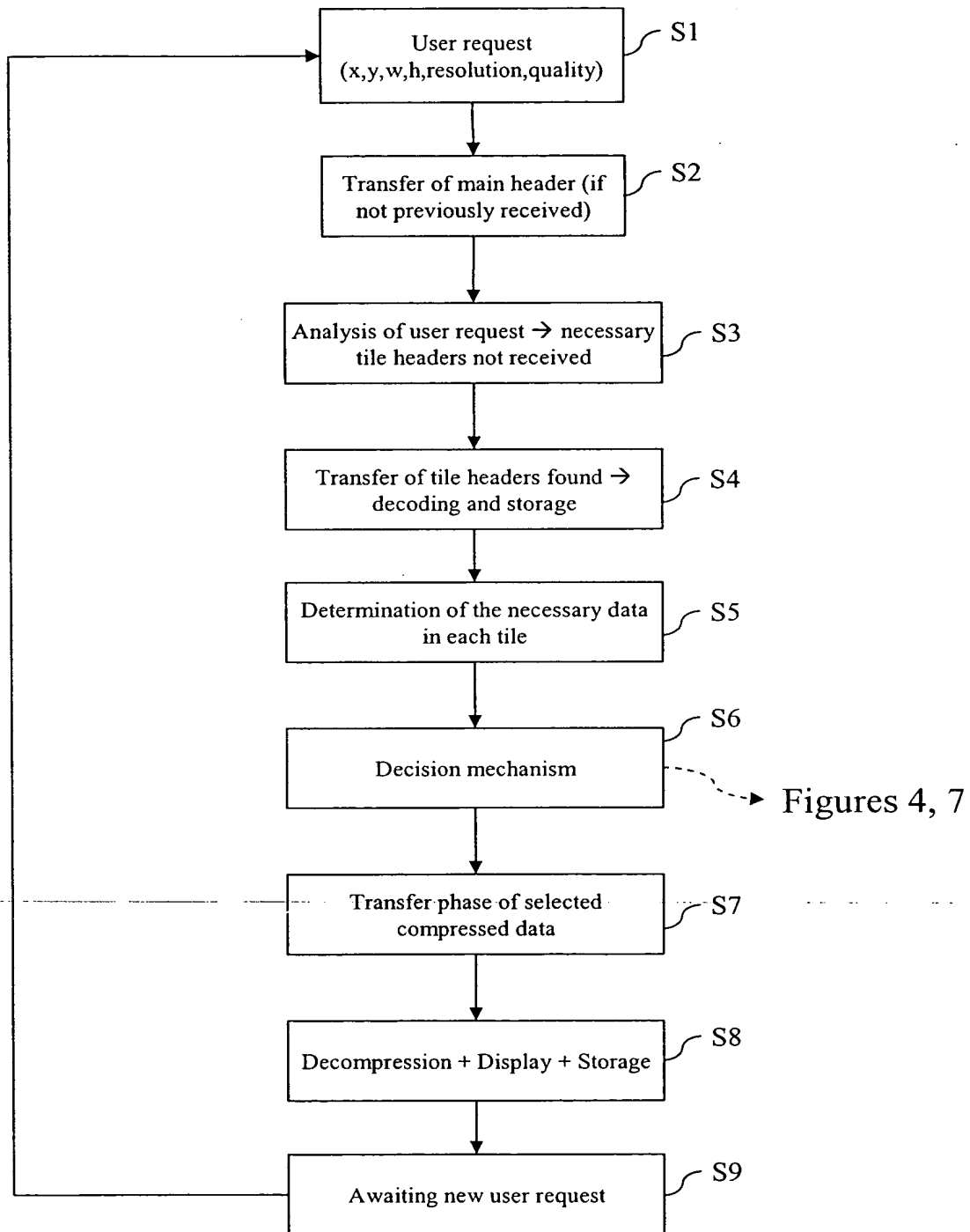


Figure 3

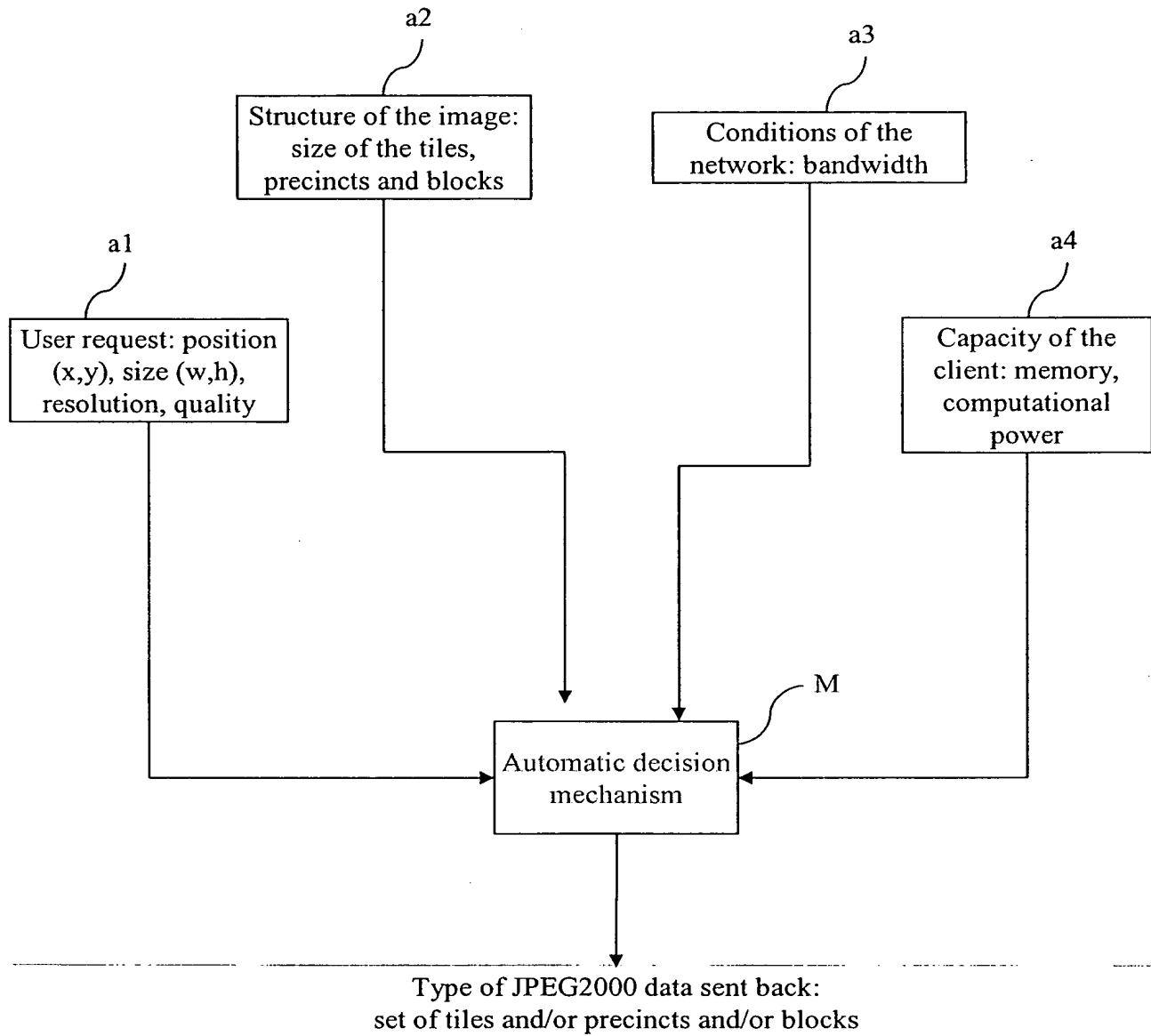


Figure 4

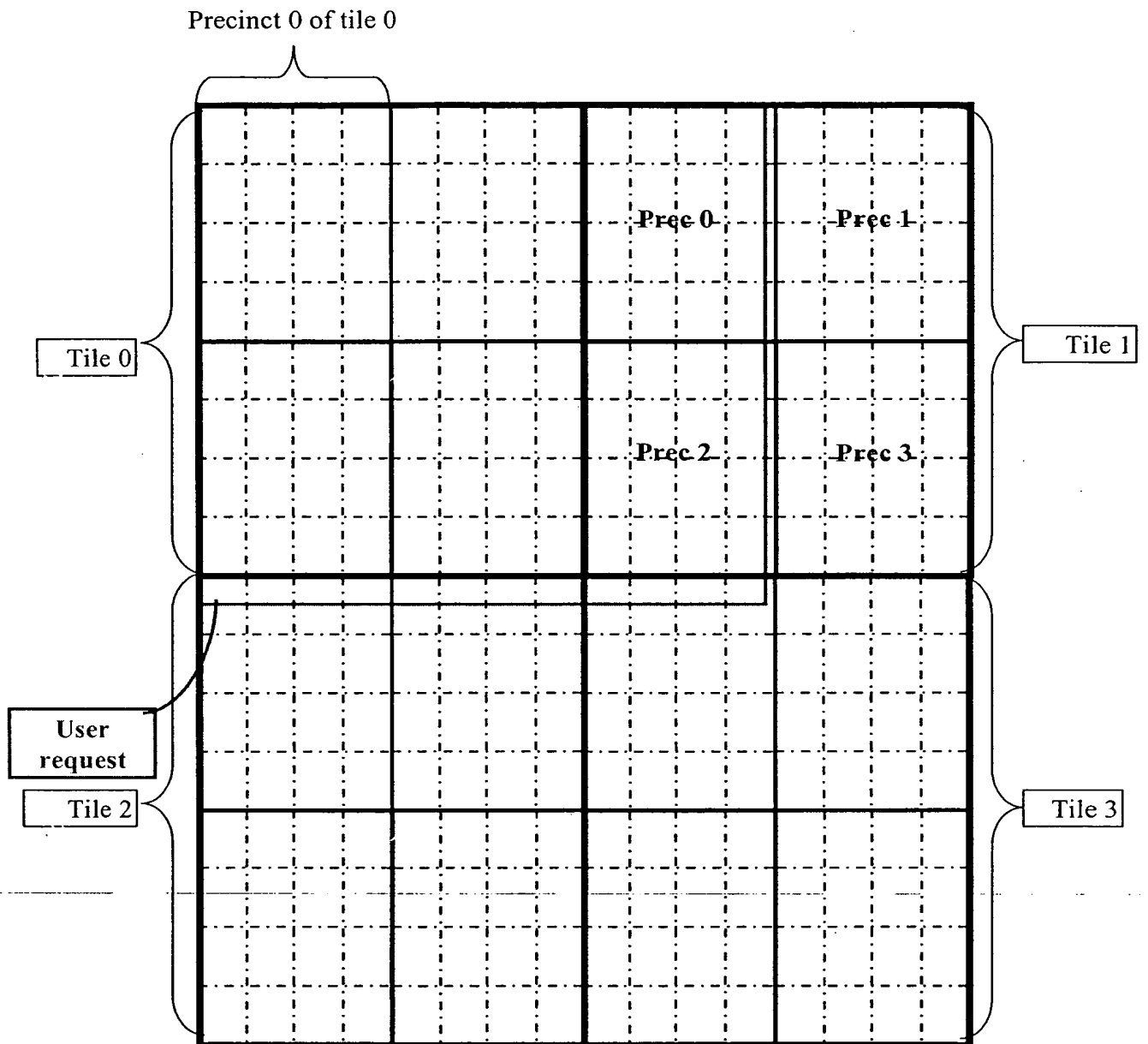


Figure 5

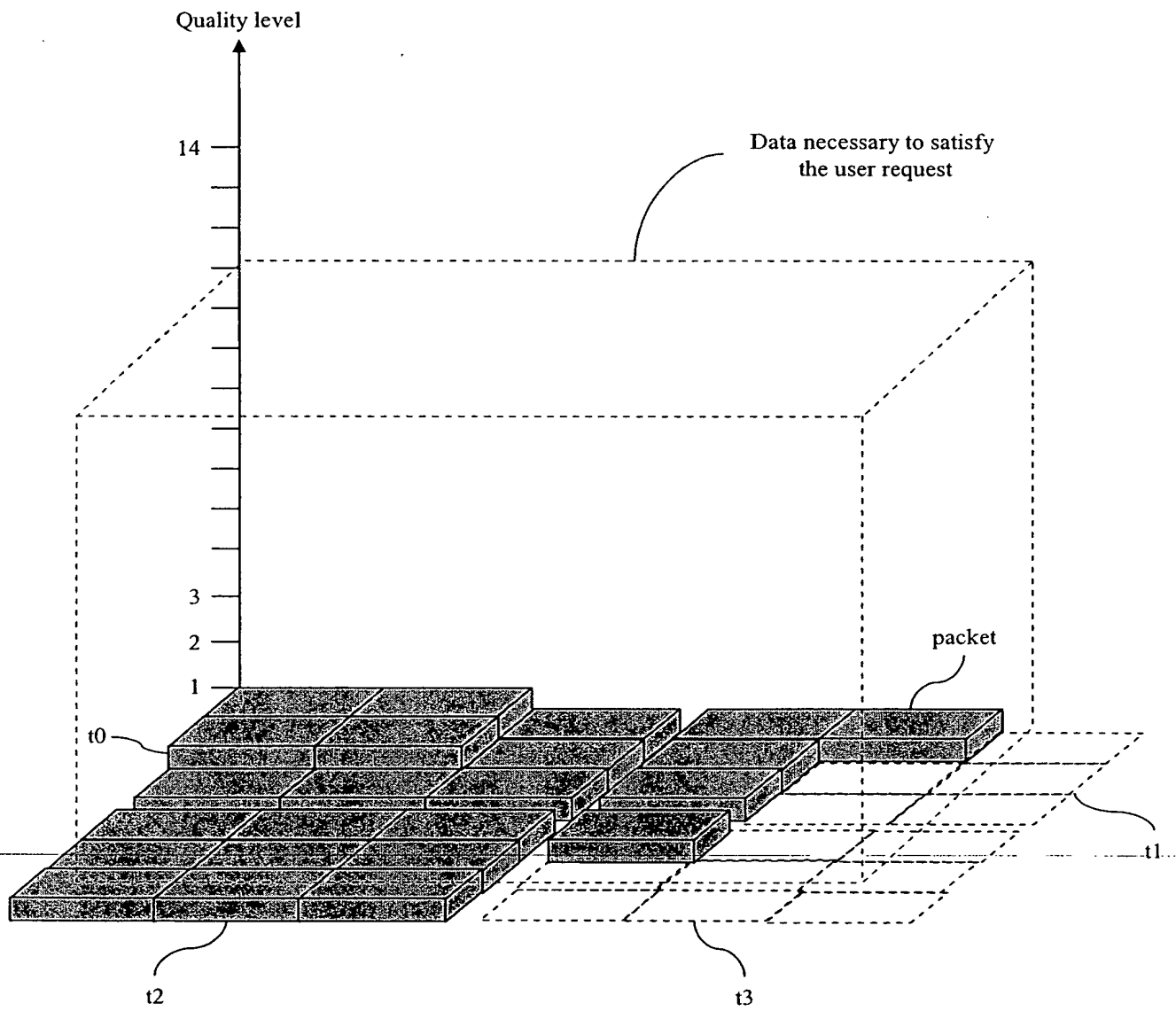


Figure 6

Set of tiles entirely or partially
contained in the region of interest:
 t_0, \dots, t_n

Precincts necessary in each tile
and resolution level

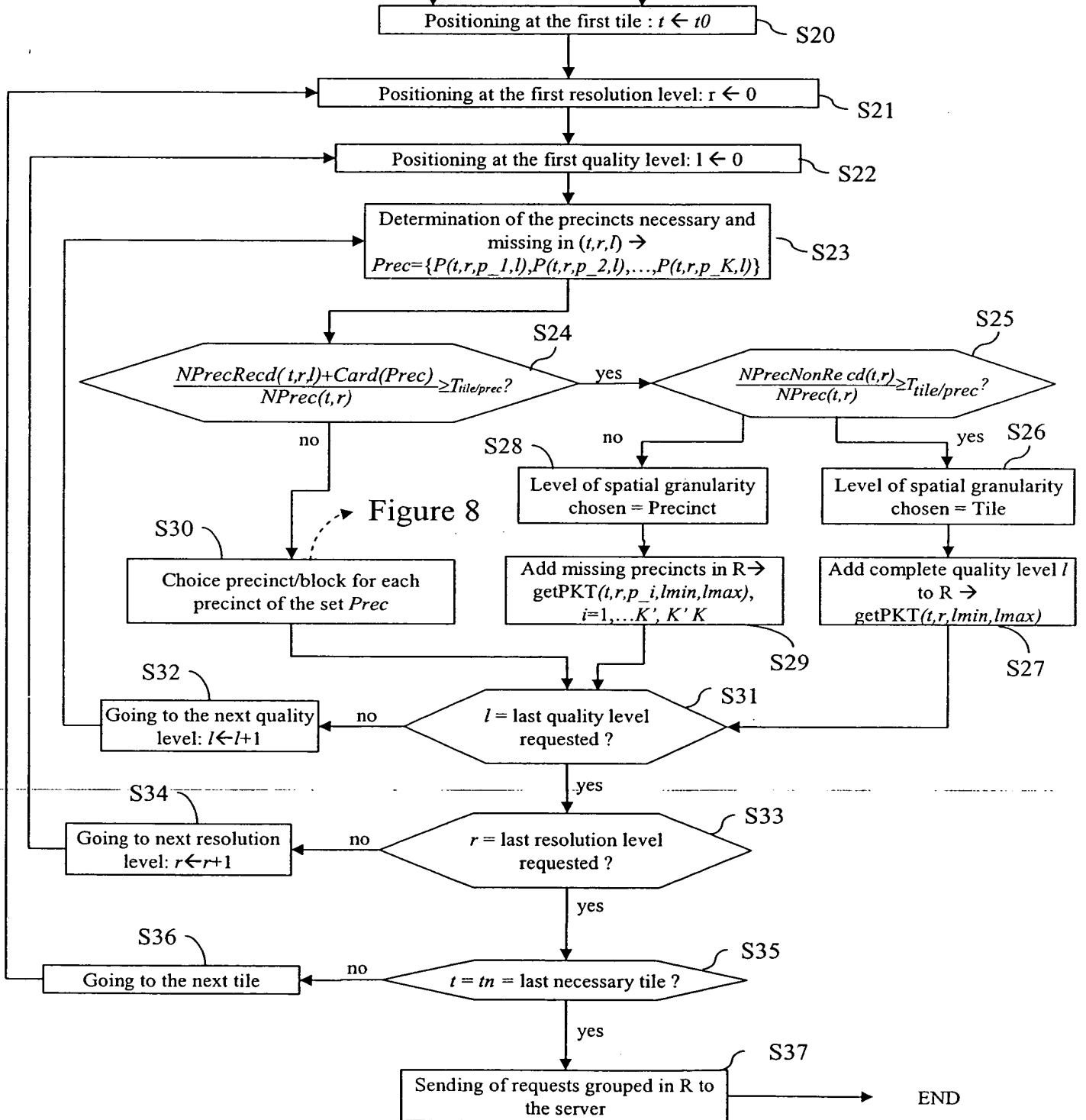


Figure 7

The set of missing precincts in tile t ,
resolution level r , quality layer l :
 $Prec = \{P(t, r, p_1, l), P(t, r, p_2, l), \dots, P(t, r, p_K, l)\}$

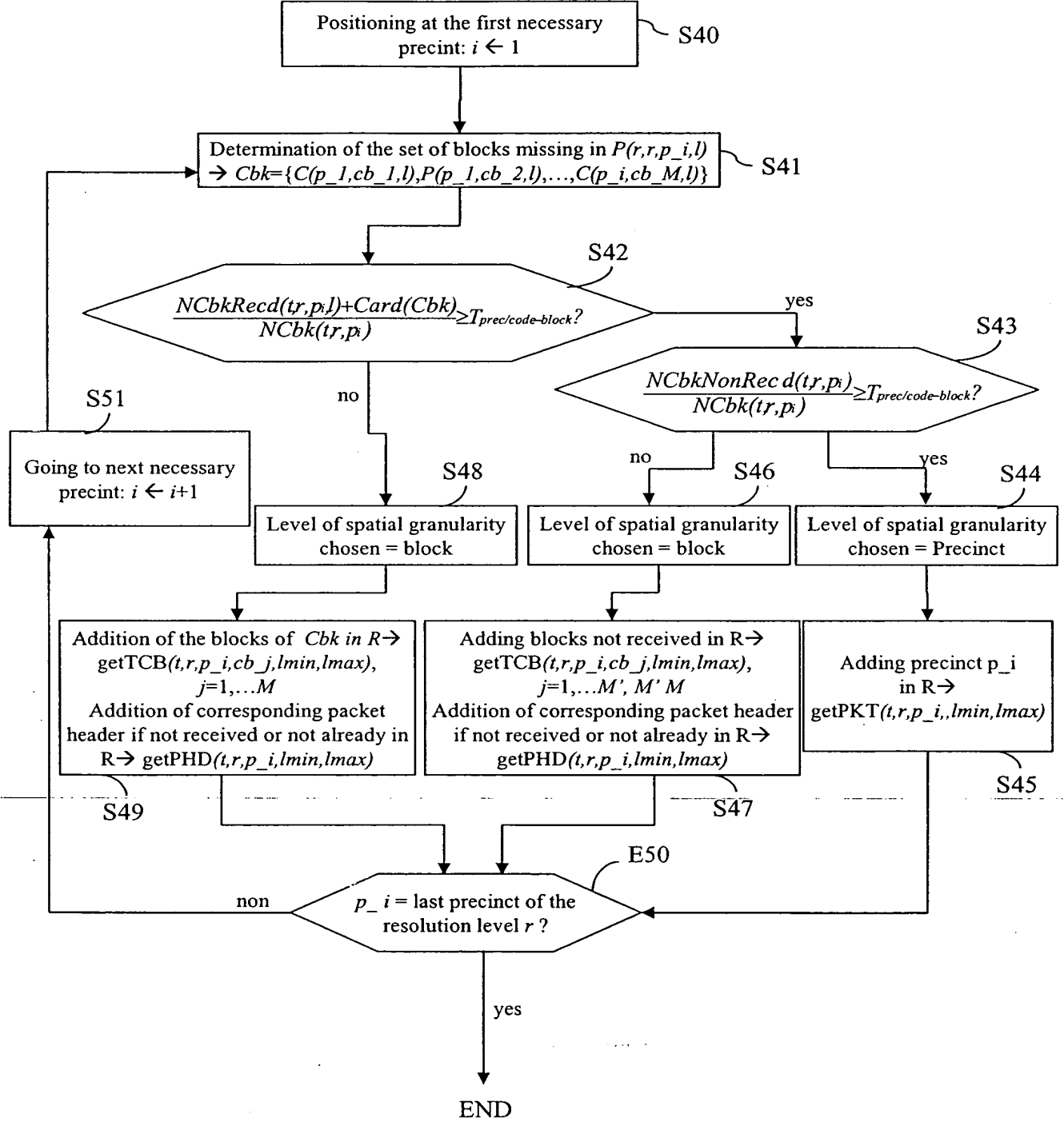


Figure 8

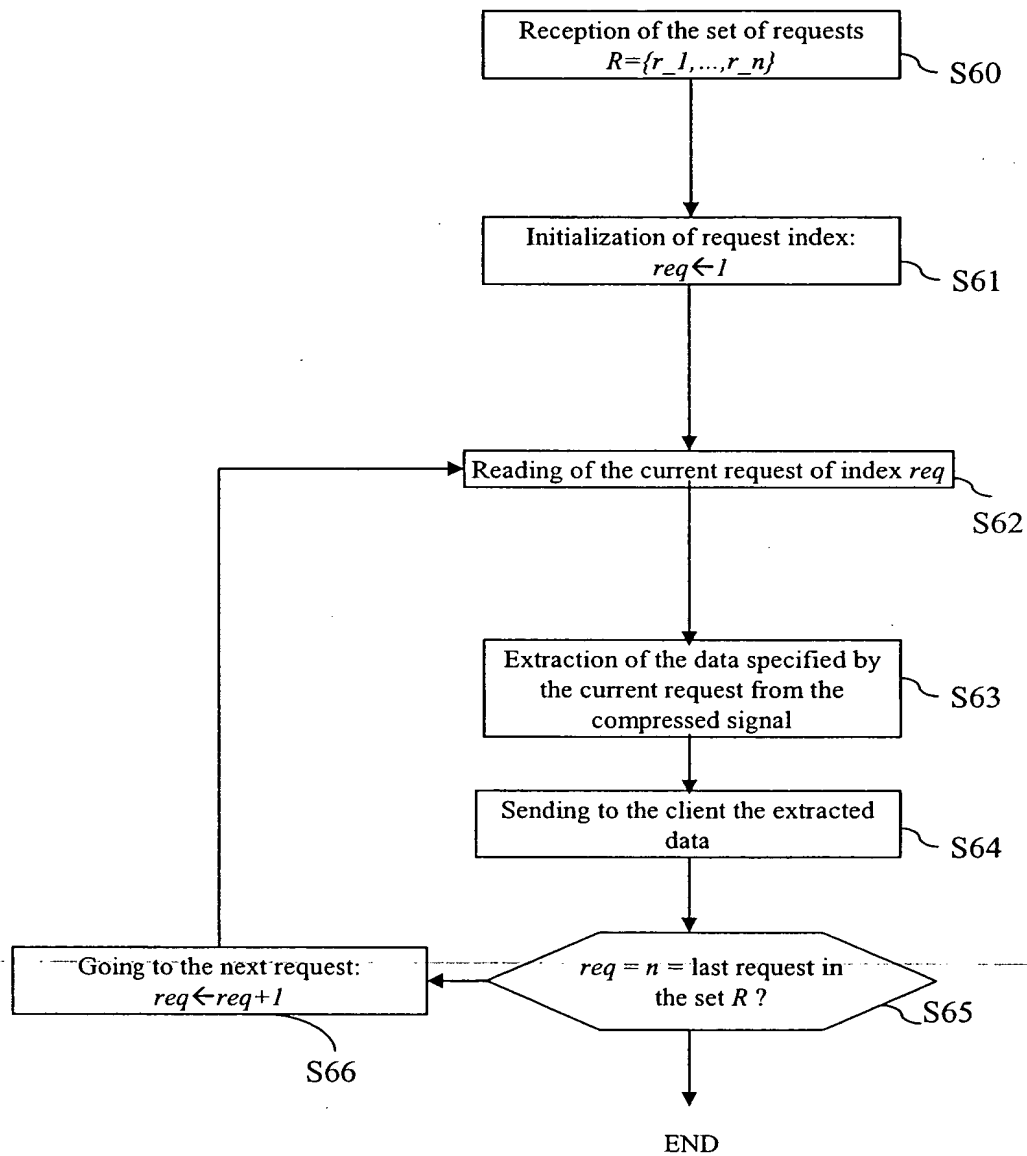


Figure 9

Set of the tiles entirely or partially
contained in the region of interest:
 $\{t_0, \dots, t_n\}$

Precincts necessary in each
tile and resolution level

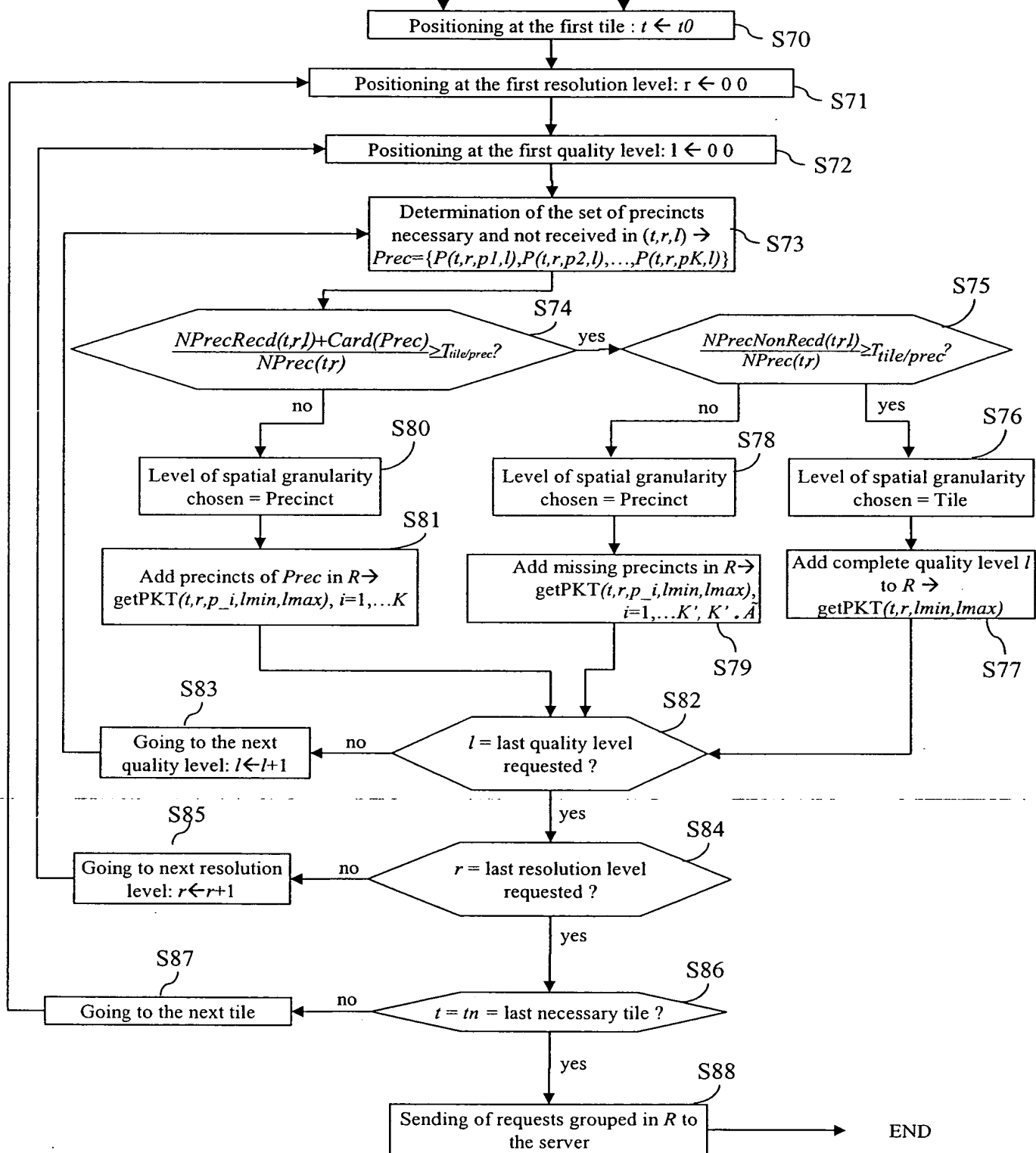


Figure 10

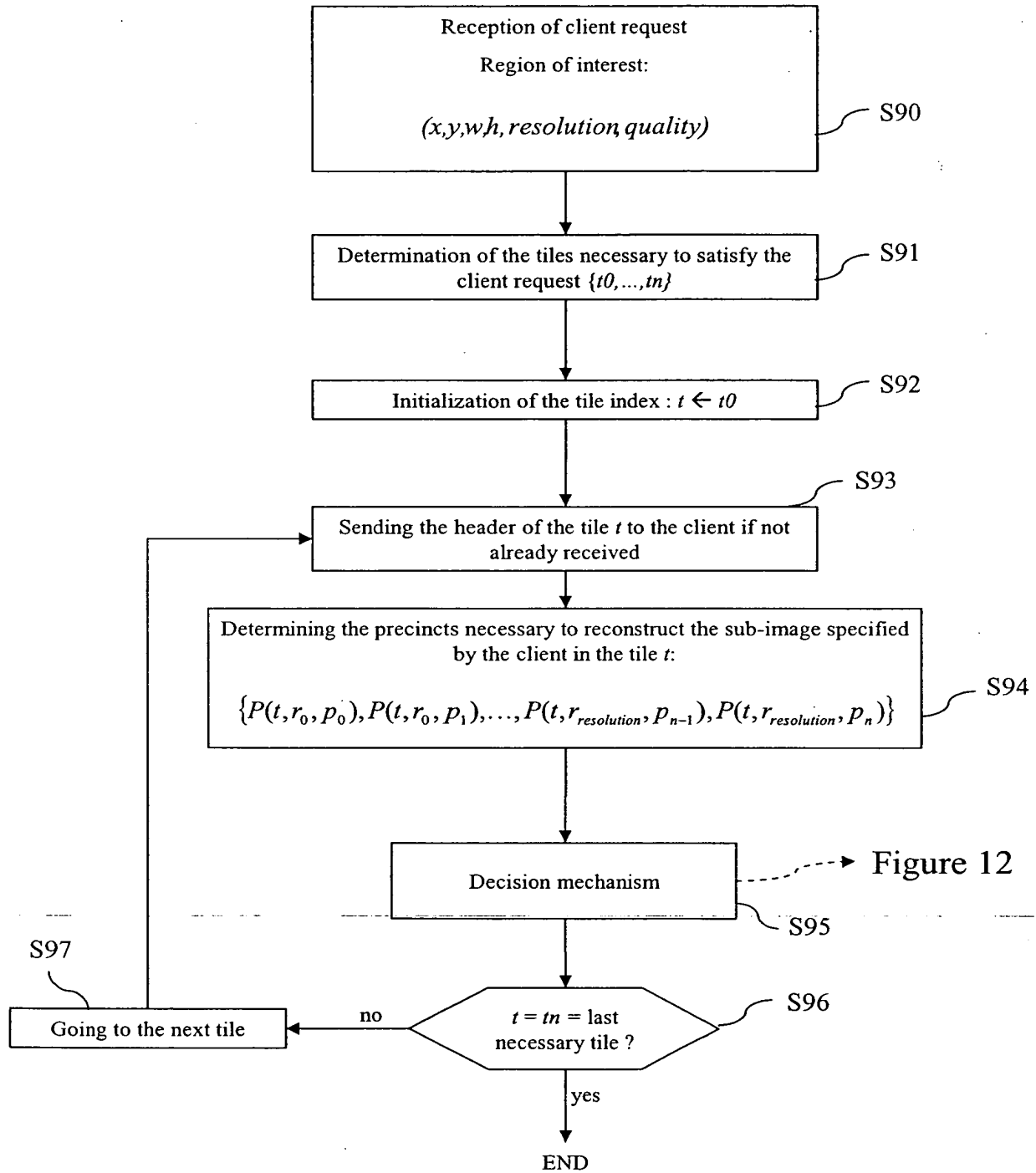


Figure 11

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Precincts necessary in the
current tile t in each resolution
level

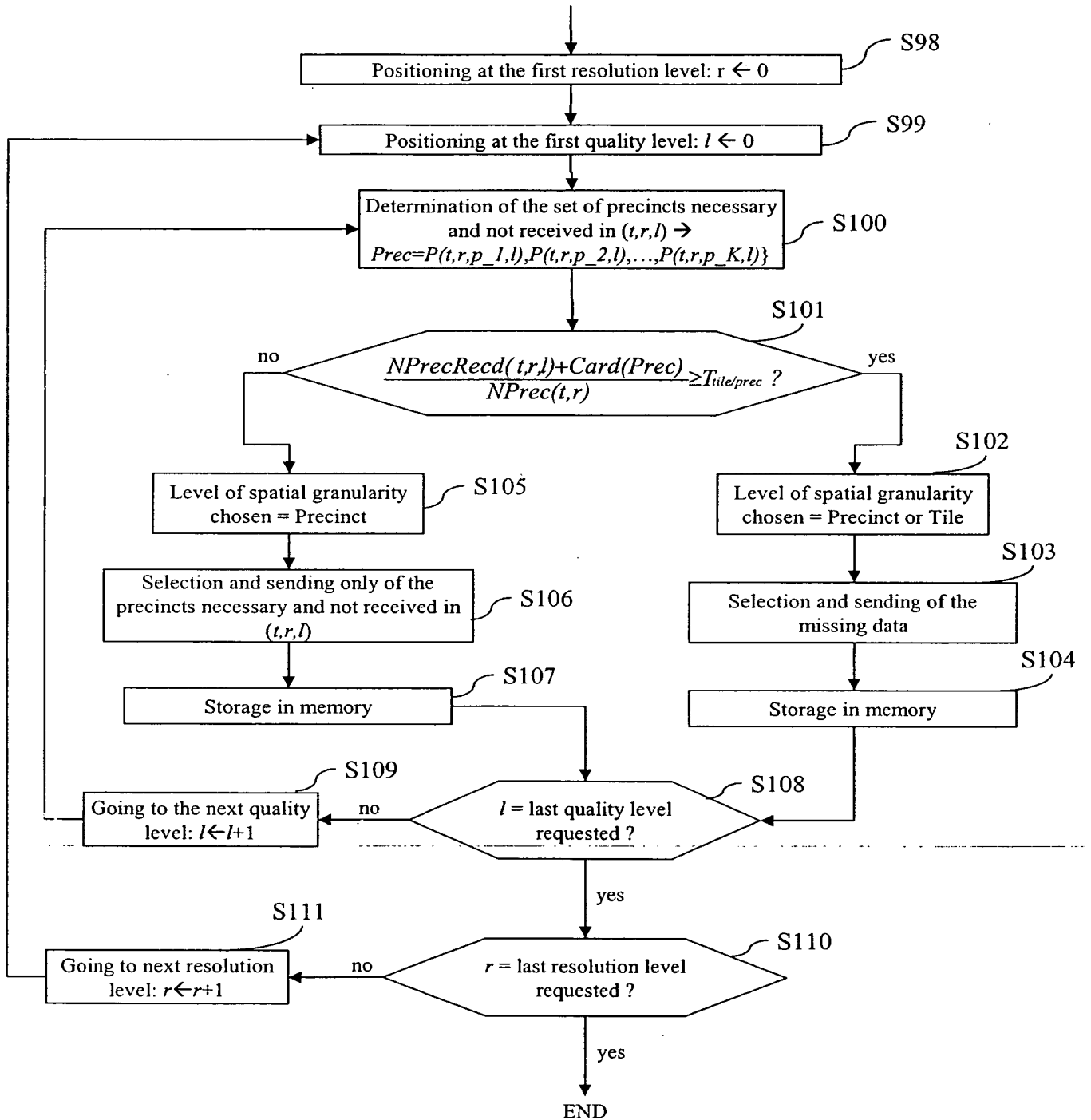


Figure 12

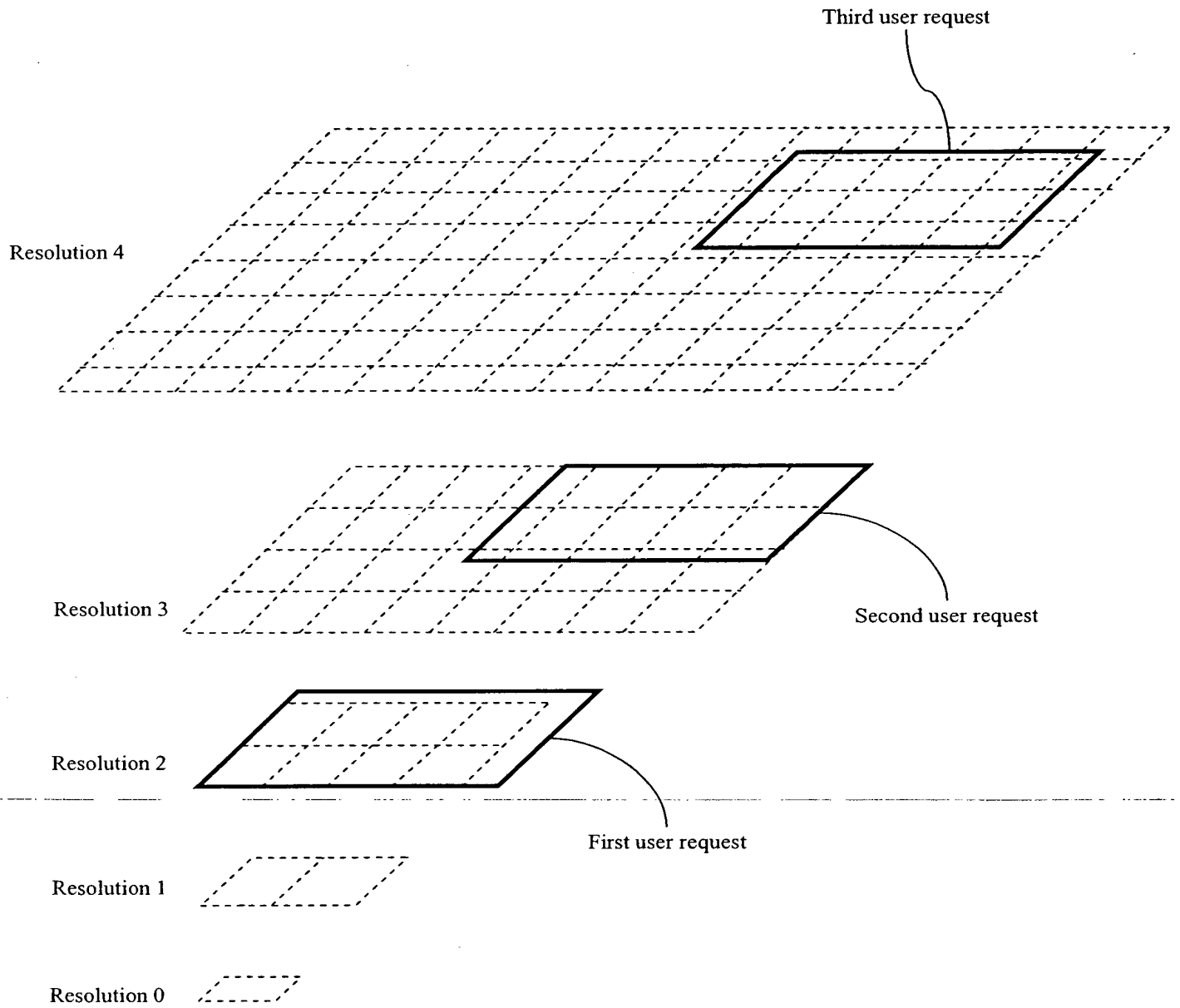


Fig. 13